

Product datasheet for **RG221661**

PSG4 (NM_213633) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSG4 (NM_213633) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PSG4
Synonyms:	PSBG-4; PSBG-9; PSG9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221661 representing NM_213633 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCCCTCTCAGCCCTCCCTGCACACAGCGCATCACCTGGAAGGGGGTCTGCTCACAGCATCAC
TTTTAACTTCTGGAATCCGCCACAACAGCCCAAGTACGATTGAAGCCAGCCACCCAAAGTTTCTGA
GGGAAGGATGTTCTTCTACTTGTCCACAATTTGCCCGAATCTTGCTGGCTACATTTGGTACAAAGG
CAAATGACATACCTCTACCATTACATTACATCATATGTAGTAGACGGTCAAAGAATTATATATGGGCCTG
CATACAGTGAAGAGAAAGAGTATATCCAATGCATCCCTGCTGATCCAGAATGTCACGCAGGAGGATGC
AGGATCTACACCTTACACATCATAAAGCGACGGATGGGACTGGAGGAGTAACTGGACATTTACCTTC
ACCTTACACCTGGAGACTCCCAAGCCCTCCATCTCCAGCAGCAACTTAAATCCCAGGGAGGCCATGGAGG
CTGTGATCTTAACCTGTGATCCTGCGACTCCAGCCGAAGCTACCAAGTGGTGAATGGTCAGAGCCT
CCCTATGACTCACAGGTTGCAGCTGTCCAAAACCAACAGGACCCTCTTTATTTGGTGTCAAAAGTAT
ATTGCAGGACCCTATGAATGTGAAATACGGAACCCAGTGAAGTCCAGCCGAGTGACCCAGTCACCTGA
ATCTCCTCCATGGTCCAGACCTCCCGAGCATTTACCCTTATTACCTATTACCGTTCAGGAGAAAACCT
CTACTTGTCTGCTTCGCCGAGTCTAACCACGGGCACAATATTCTTGGACAATTAATGGGAAGTTTCAG
CTATCAGGACAAAAGCTCTATCCCCAAATAACTACAAGCATAGTGGGCTCTATGCTTGCTCTGTTC
GTAACCTAGCCACTGGCAAGGAAAGCTCCAATCCATCACAGTCAAAGTCTCTGACTGGATATTACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221661 representing NM_213633
 Red=Cloning site Green=Tags(s)

MGPLSAPPCTQRITWKGVLLTASLLNFWNPPTTAQVTIEAQPPKVSEKDVLLL VHNLPQNLAGYIWKG
 QMTYLHYIITSYVVDGQRIIYGPAYSGRERVYSNASLLIQNVTQEDAGSYTLHIKRRDGTGGVTGHFTF
 TLHLETPKPSISSNLNPREAMEAVILTCDPATPAASYQWMNGQSLPMTHRLQLSKTNRTLFIFGVTKY
 IAGPYECEIRNPVSASRSDPVTLNLLHGPDLPSIYPSFTYYRSGENLYLSCAESNPRAQYSWTINGKFO
 LSGQKLSIPQITTKHSGLYACSVRNSATGKSSKSITVKVSDWILP

TRTRPLE - GFP Tag - V

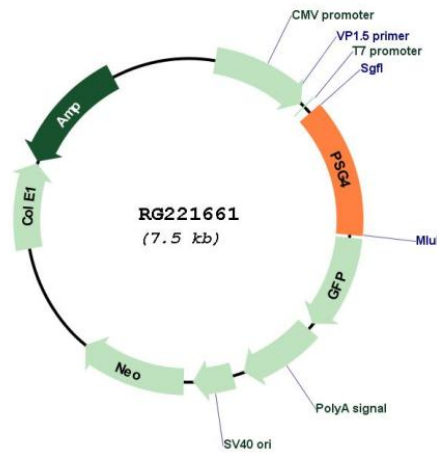
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_213633

ORF Size: 978 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_213633.3
RefSeq Size:	1780 bp
RefSeq ORF:	981 bp
Locus ID:	5672
UniProt ID:	Q00888
Cytogenetics:	19q13.31
Protein Families:	Secreted Protein
Gene Summary:	The protein encoded by this gene is a pregnancy-specific glycoprotein (PSG), one of several encoded by a cluster of similar genes on chromosome 19. This gene is a member of the carcinoembryonic antigen (CEA) gene family and may play a role in regulation of the innate immune system. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2015]